STR-1800

US Model
Canadian Model
AEP Model
UK Model

FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

GENERAL

System: Superheterodyne fm/a-m tuner, Complementary symmetry power amplifier circuit (SEPP OTL)

Power Requirements: 120 Vac, 60 Hz (US, Canadian model)
220 Vac, 50/60 Hz (AEP model)
240 Vac, 50 Hz (UK model)

Power Consumption: 60W (US, Canadian model)
80W (AEP model)
90W (UK model)

AC Outlet: 1 unswitched, 250W (US, Canadian model)

Dimensions: Approx.
479 (w) x 153 (h) x 332 (d) mm
18 7/8 (w) x 6 (h) x 13 (d) inches
including projecting parts and controls

Weight: Approx. 7.5 kg, 16 lb 10 oz, net
Approx. 9.6 kg, 21 lb 2 oz, in shipping carton

AMPLIFIER SECTION

Continious RMS Power Output: (rated output) (Less than 0.8% harmonic distortion)
Both channels driven simultaneously
at 40 – 20,000 Hz
12W + 12W (8 Ω)
at 1 kHz
13W + 13W (8 Ω) } (AEP, UK model)
According to DIN 45500
12W + 12W (8 Ω)

Dynamic Power Output: (IHF constant power supply method) 48W (8 Ω) (AEP, UK model)

Harmonic Distortion: Less than 0.8% at rated output

Inputs:

	sensitivity	impedance	S/N
PHONO	3 mV	47 kΩ	60 dB
TAPE, REC/PB (input)	440 mV	50 kΩ	70 dB

Outputs:

	sensitivity	impedance
REC OUT	250 mV	10 kΩ
REC/PB (output)	30 mV	80 kΩ

Headphones: Accepts headphones of 8 Ω or more.

Speaker: Accepts speakers of 8 Ω or more.

Frequency Response: PHONO RIAA curve ± 2 dB
TAPE, REC/PB (input) 40 – 20,000 Hz ±1 dB

Tone Controls: BASS ± 10 dB at 100 Hz
TREBLE ± 10 dB at 10 kHz

Loudness Control: (att. 30 dB) + 10 dB at 100 Hz
+ 4 dB at 10 kHz

– continued on page 2 –

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SONY®

SERVICE MANUAL

FM SECTION

Tuning Range:	87.5 MHz – 108 MHz
Intermediate Frequency:	10.7 MHz
Antenna:	300 Ω balanced
Usable Sensitivity:	3.5 μV (IHF) 2.2 μV S/N = 30 dB
Selectivity:	50 dB
Separation:	Better than 30 dB
Frequency Response:	20 – 15,000 Hz ± 3 dB
Capture Ratio:	2 dB
Image Response Ratio:	30 dB
IF Response Ratio:	60 dB
AM Suppression Ratio:	40 dB
SCA Rejection Ratio:	60 dB (US, Canadian model)
Sub-carrier Product Ratio:	40 dB

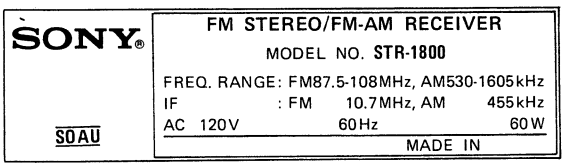
AM SECTION

Tuning Range:	530 kHz –1,605 kHz
Intermediate Frequency:	455 kHz (US, Canadian, AEP model) 468 kHz (UK model)
Antenna:	Built-in ferrite-rod antenna External antenna terminal
Sensitivity:	50 dB/m, built-in antenna 35 μV, external antenna
Selectivity:	30 dB
Signal-to-noise Ratio:	55 dB
Harmonic Distortion:	1 % at 400 Hz
Image Response Ratio:	30 dB
IF Response Ratio:	20 dB

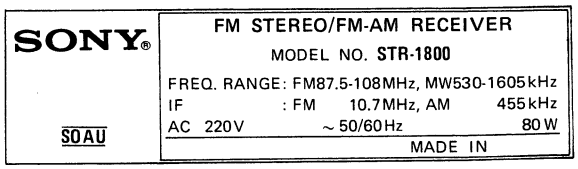
MODEL IDENTIFICATION

- Specification Label

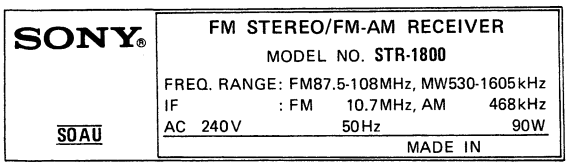
US, Canadian model



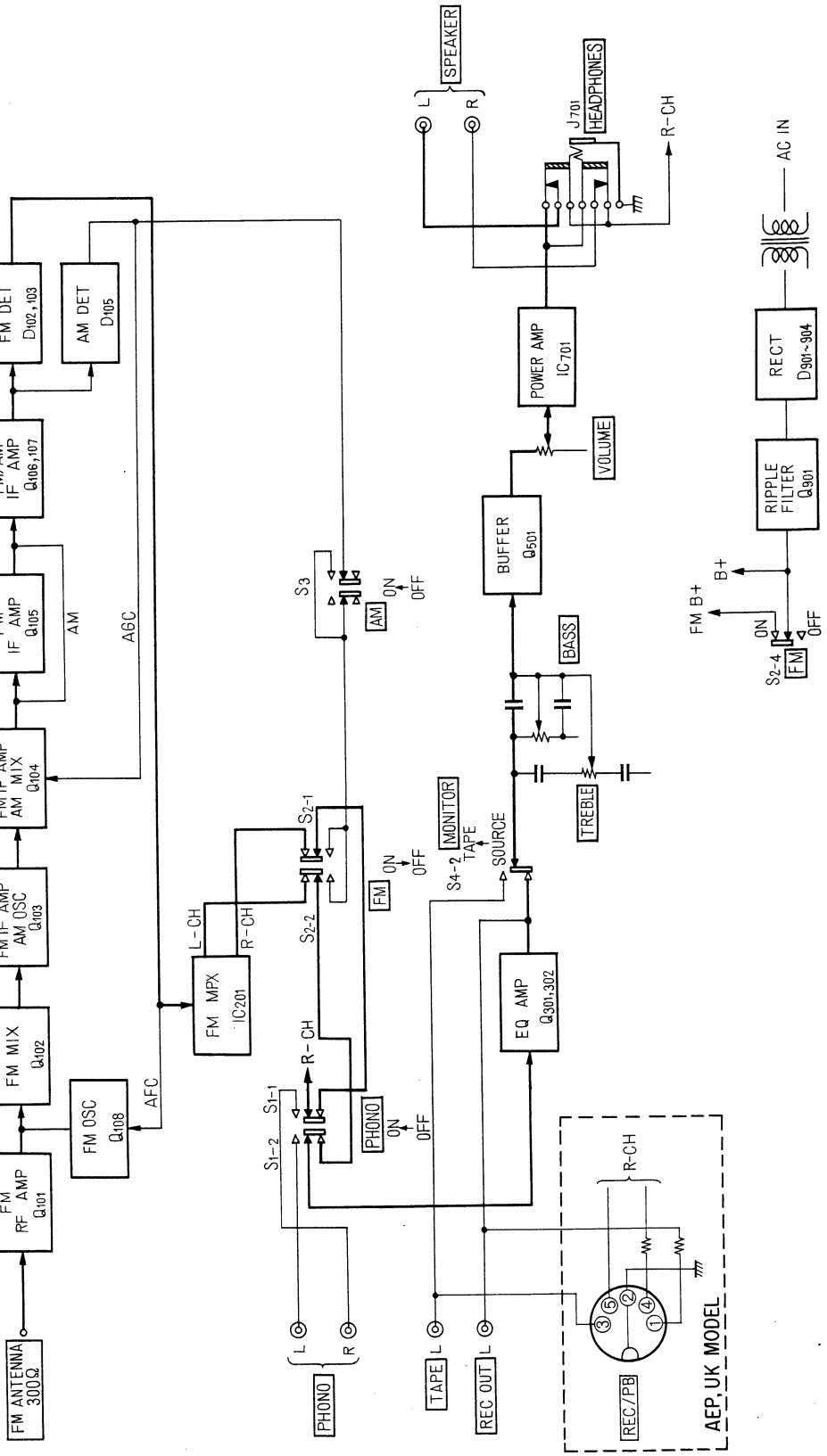
AEP model



UK model



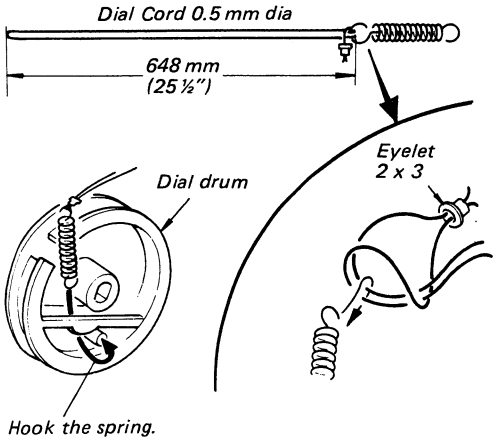
SECTION 1
BLOCK DIAGRAM



SECTION 2

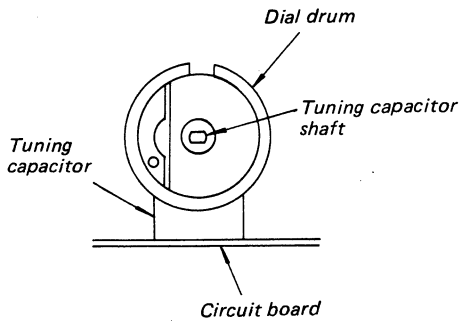
DIAL CORD STRINGING

2-1. PREPARATION

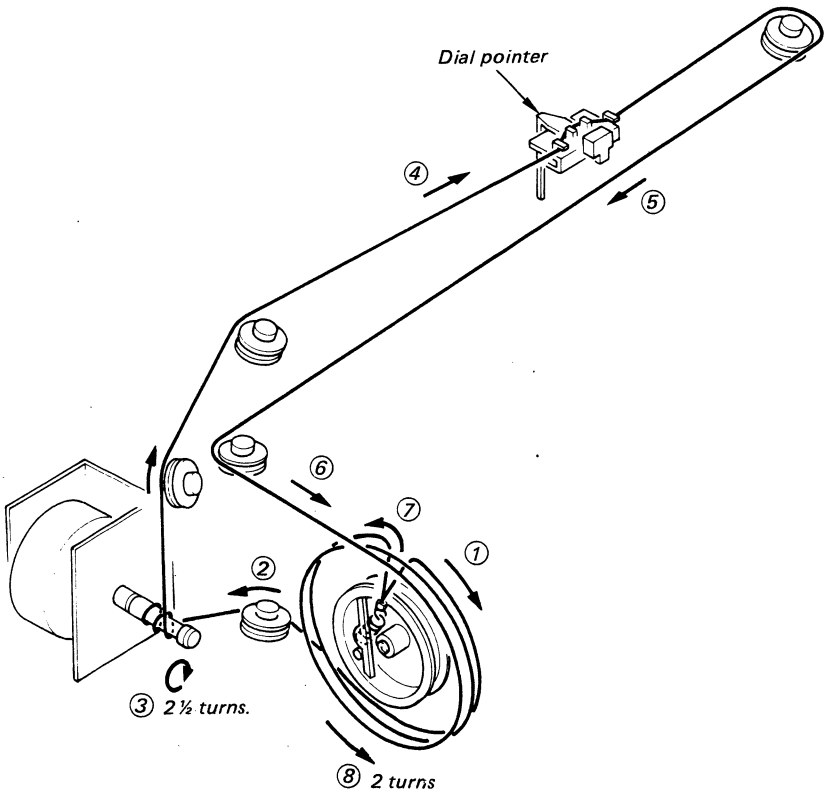


2-2. DIAL DRUM INSTALLATION

1. Turn the tuning capacitor shaft fully clockwise.
2. Install the dial drum as shown below.



2-3. DIAL CORD STRINGING



2-4. DIAL POINTER SETTING

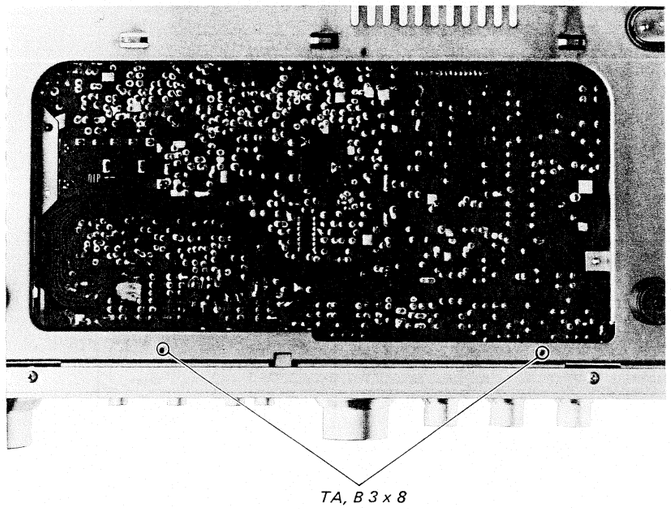
1. Turn the tuning shaft and receive a broadcasting signal.
2. Set the dial pointer to the position which shows the broadcasting signal frequency.
3. Secure the dial pointer to the dial cord with locking compound.

SECTION 3

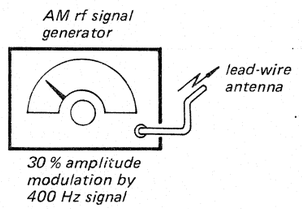
REMOVAL AND ADJUSTMENTS

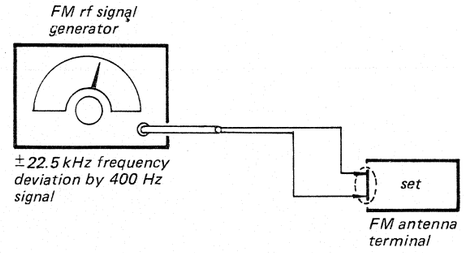
3-1. BOTTOM PLATE REMOVAL
(for checking voltages on the circuit board)

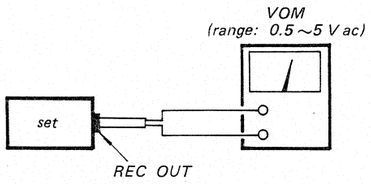
(bottom view, except bottom plate)



3-2. ADJUSTMENTS







- *Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.*

AM IF ALIGNMENT
Adjust for a maximum reading on VOM.
455 kHz (468 kHz)
CFU101

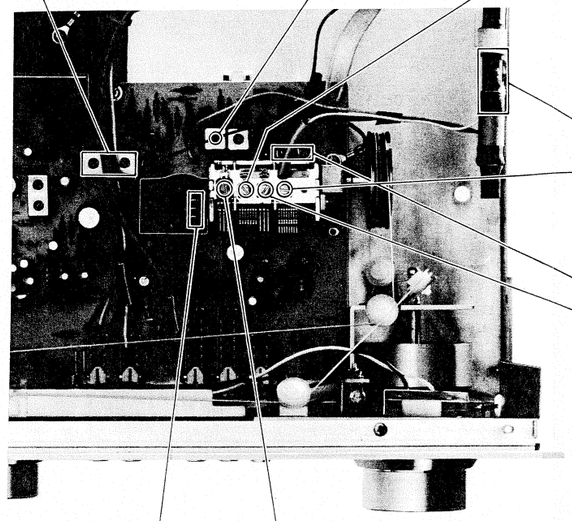
( ): UK model

AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
520 kHz	1,680 kHz
L103	CT102

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
L105	620 kHz
CT104	1,400 kHz

FM TRACKING ADJUSTMENT	
L101	87.2MHz (87.5MHz)
CT101	108.4MHz (108MHz)
Adjust for a maximum reading on VOM.	

( ): in West Germany



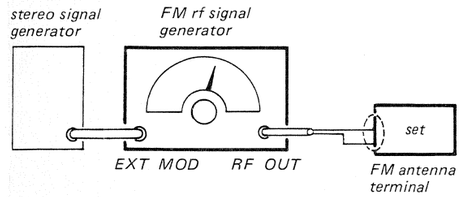
L104	CT103
87.2 MHz (87.5 MHz)	108.4 MHz (108 MHz)
Adjust for a maximum reading on VOM.	
FM FREQUENCY COVERAGE ADJUSTMENT	

( ): in West Germany

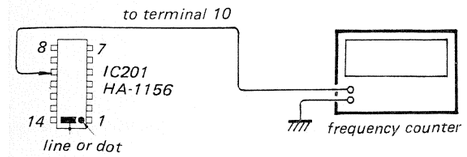
MPX ADJUSTMENT

A) With Frequency Counter

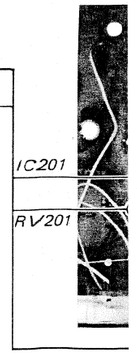
Procedure:



Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100 %)
Output level: 1 mV (60 dB)



1. Tune the set to 98 MHz.
2. Adjust RV201 for 19 kHz ± 30 Hz on the counter.



B)
Pr
1.
2.
3.

AM IF ALIGNMENT
Adjust for a maximum reading on VOM.
455 kHz (468 kHz)
CFU101

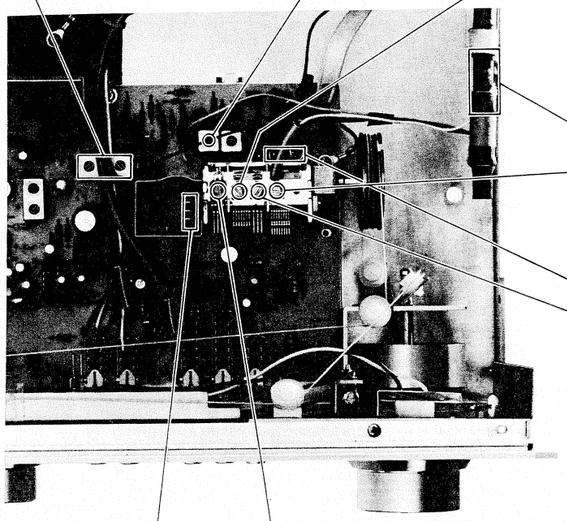
( ): UK model

AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
520 kHz	1,680 kHz
L103	CT102

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
L105	620 kHz
CT104	1,400 kHz

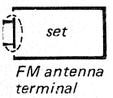
FM TRACKING ADJUSTMENT	
L101	87.2MHz (87.5MHz)
CT101	108.4MHz (108MHz)
Adjust for a maximum reading on VOM.	

( ): in West Germany



L104	CT103
87.2 MHz (87.5 MHz)	108.4 MHz (108 MHz)
Adjust for a maximum reading on VOM.	
FM FREQUENCY COVERAGE ADJUSTMENT	

( ): in West Germany

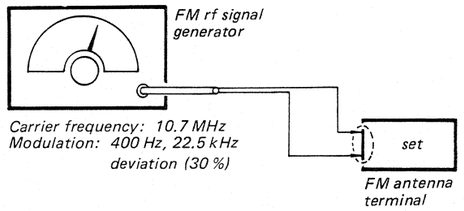


FM antenna terminal

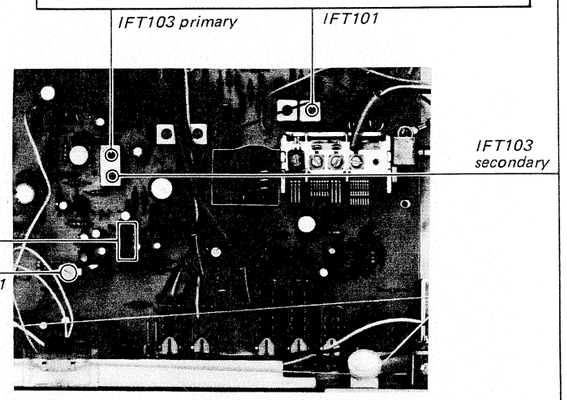
ac)

FM IF ALIGNMENT 1

Procedure:



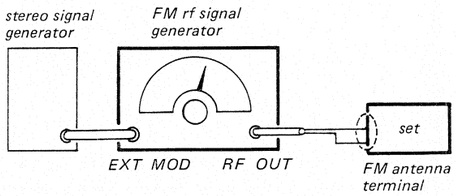
Adjust for a maximum reading on VOM.



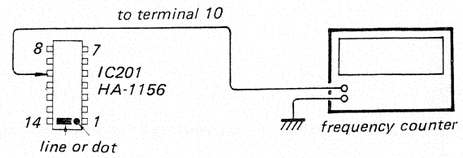
MPX ADJUSTMENT

A) With Frequency Counter

Procedure:



Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100 %)
Output level: 1 mV (60 dB)

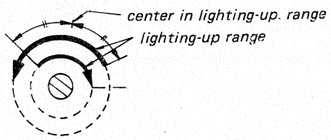


1. Tune the set to 98 MHz.
2. Adjust RV201 for 19 kHz ± 30 Hz on the counter.

B) Without Frequency Counter

Procedure:

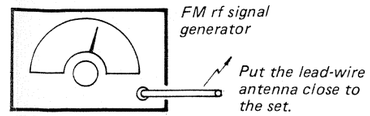
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV201 clockwise or counterclockwise and memorize the lighting-up range of stereo lamp.
3. Secure RV201 at the center in lighting-up range of both turns as shown below.



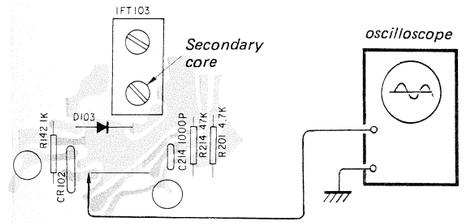
FM IF ALIGNMENT 2 (DISCRIMINATOR ALIGNMENT)

A) With Oscilloscope

Procedure:



Carrier frequency: 10.7 MHz
Modulation: 400 Hz, 30 %



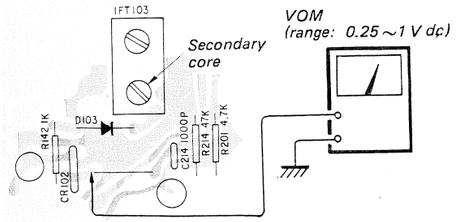
Adjust secondary core of IFT103.

Oscilloscope Pattern

B) With VOM

Procedure:

1. Detune the set.
2. Adjust secondary core of IFT103 for 0 V dc reading on VOM.



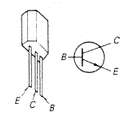
SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM
— Conductor Side —

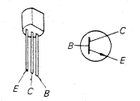
Q101, 102, 104 ~ 108
Q110, D108: 2SC710

D201: EQA01-15R

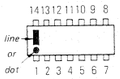
Q103: 2SC403C
Q301, 401: 2SC631A
Q302, 402: 2SC634A
Q501, 601: 2SC632A



Q901: 2SC1475

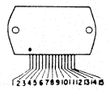


IC201: HA1156

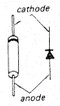


(Top view)

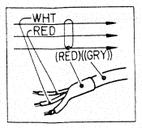
IC701: STK439

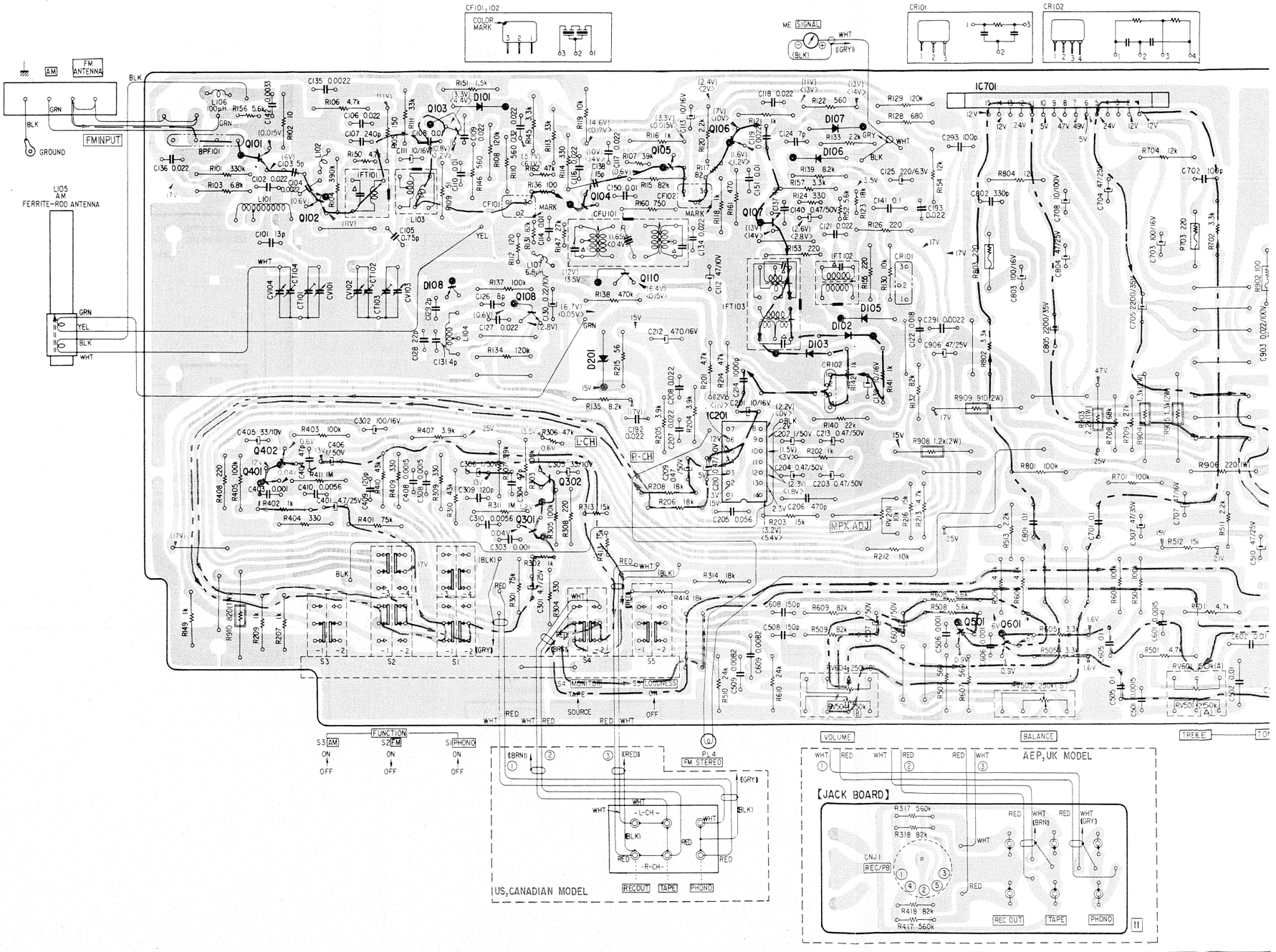


D101 : 1S1555
D102, 103 : 1T22A
D105 ~ 107 : 1T22A
D901 ~ 904: 10E2

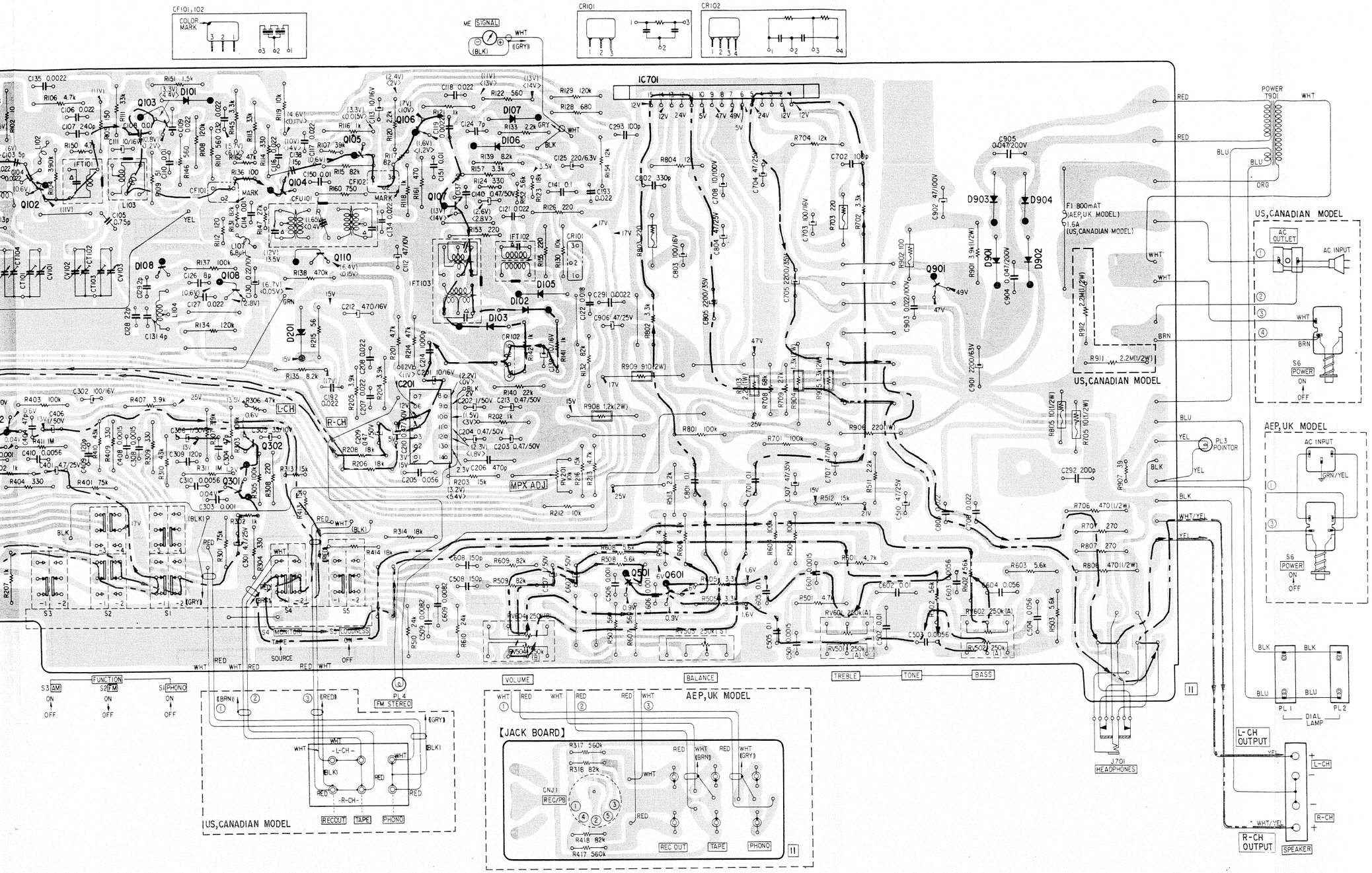


Note:
- : fusible resistor
- : non-flamable resistor
- : indicates designation on the panel.
- B+ pattern
- FM RF/IF signal path
- L-CH) FM AF signal path
- R-CH





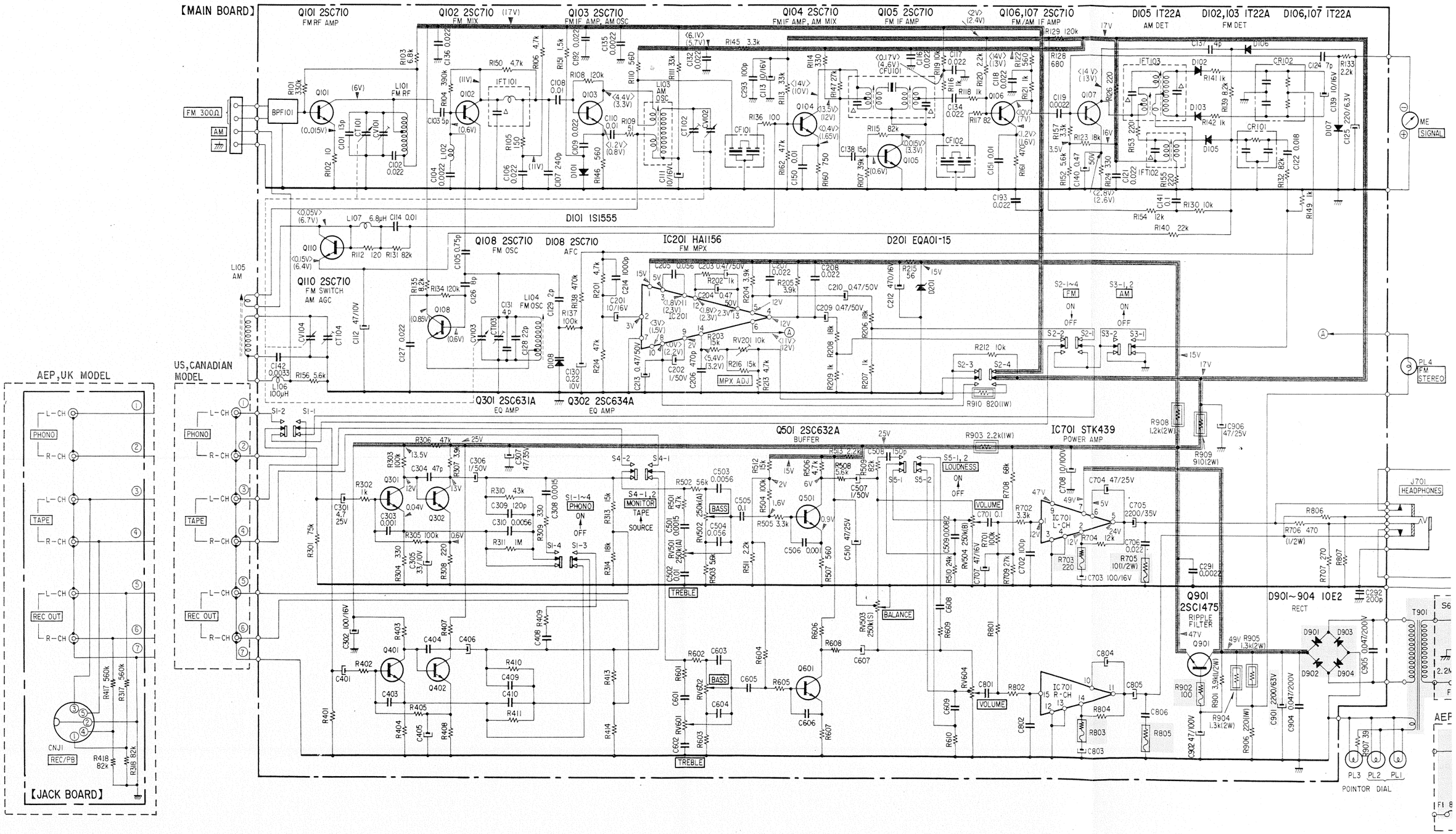
| | | |

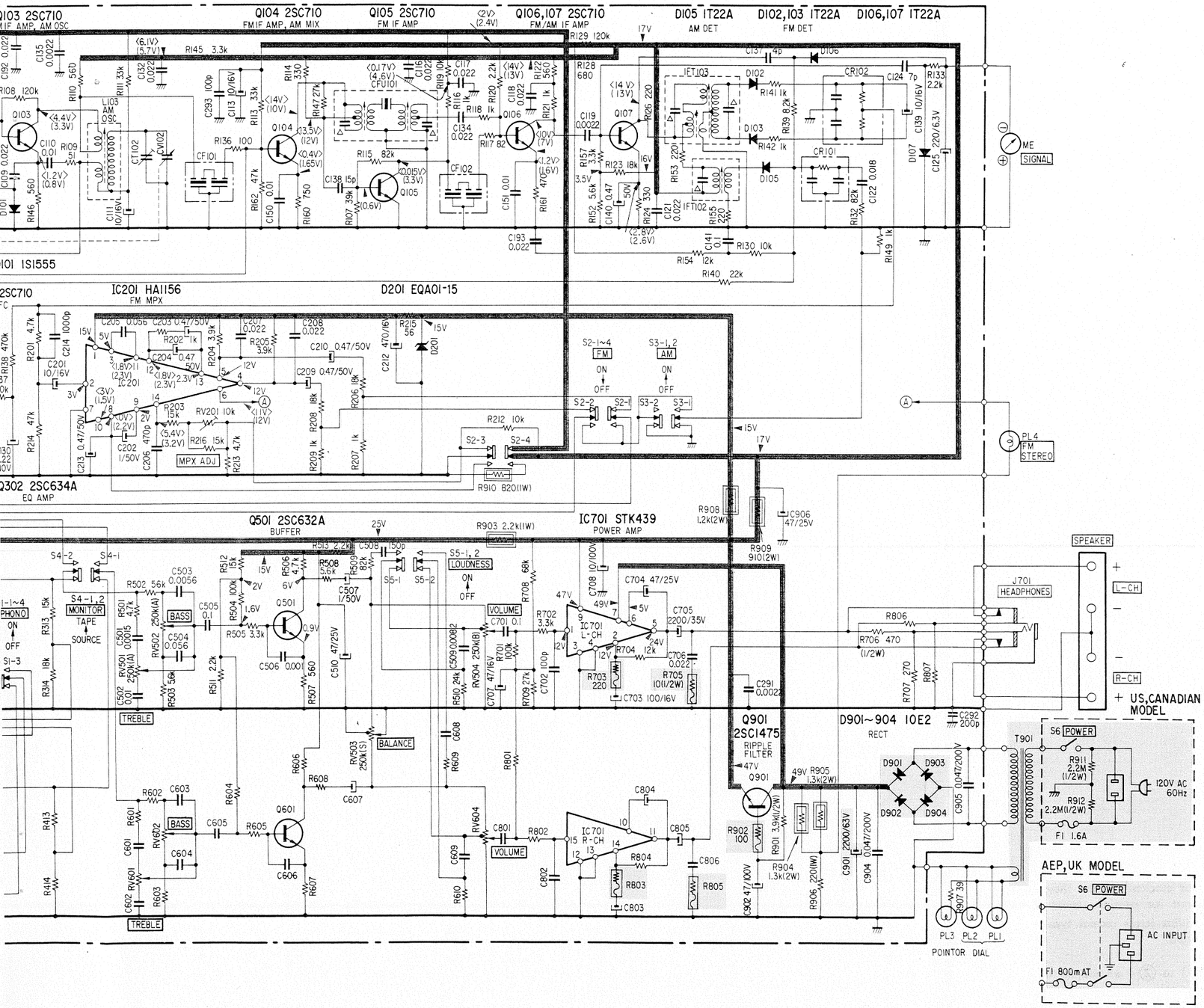

CF101,102
COLOR MARK
ME SIGNAL
(BLK)
WHT ((GRY))
CR101
CR102
IC701
POWER T901
US,CANADIAN MODEL
AEP,UK MODEL
AC OUTLET
AC INPUT
S6 POWER ON OFF
F1 800mAT (AEP,UK MODEL) 1.6A (US,CANADIAN MODEL)
PI-3 POINTER
DIAL LAMP
PL1
PL2
J701 HEADPHONES
L-CH OUTPUT
R-CH OUTPUT
SPEAKER
Q901
Q501
Q601
D901
D902
D903
D904
MPX ADJ
S1 PHONO
S2 FM
S3 AM
FUNCTION
FM STEREO
S4 MONITOR
TAPE
SOURCE
S5 LOUDNESS
ON
OFF
VOLUME
BALANCE
TREBLE
TONE
BASS
【JACK BOARD】
CNJ1 REC/PB
REC OUT
TAPE
PHONO
RECOUT
L-CH
R-CH

| | | |

Note: The components identified by shading are critical for safety. Replace only with part number specified.

4-2. SCHEMATIC DIAGRAM



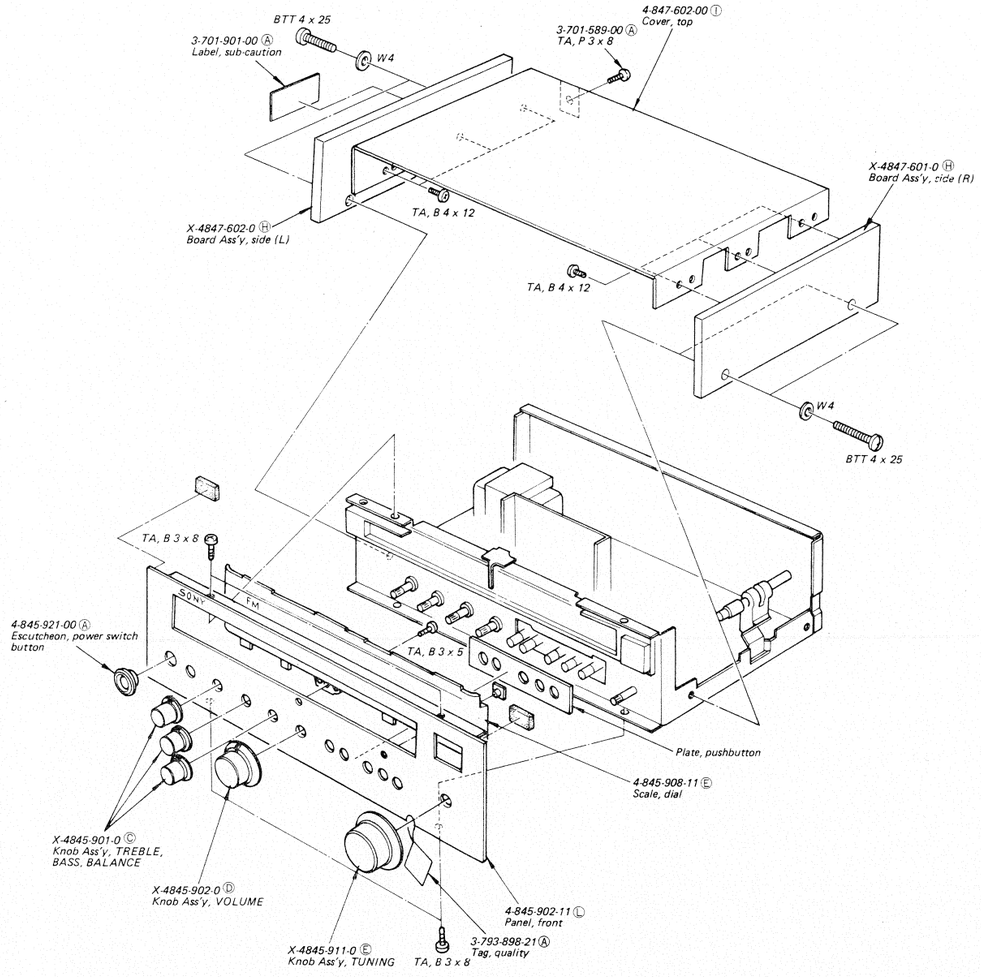


Note:

- All capacitors are in μF unless otherwise noted. 50 or less working volts are omitted except for electrolytic type. p = μμF.
- All resistors are in Ω, ¼W, unless otherwise noted. k = 1,000 M = 1000k
- △ : indicates internal components.
- ⏚ : indicates chassis ground.
- ▬ : indicates B+ bus.
- Transistor is used for D108 instead of diode.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000 ohm-per-volt VOM. ( ) : FM < > : AM no mark : common
- Voltage variations may be noted due to normal production tolerances.
- ⏦ : fusible resistor
- ▭ : non-flammable resistor
- ▭ : indicates designation on the panel.
- Switch Mode:

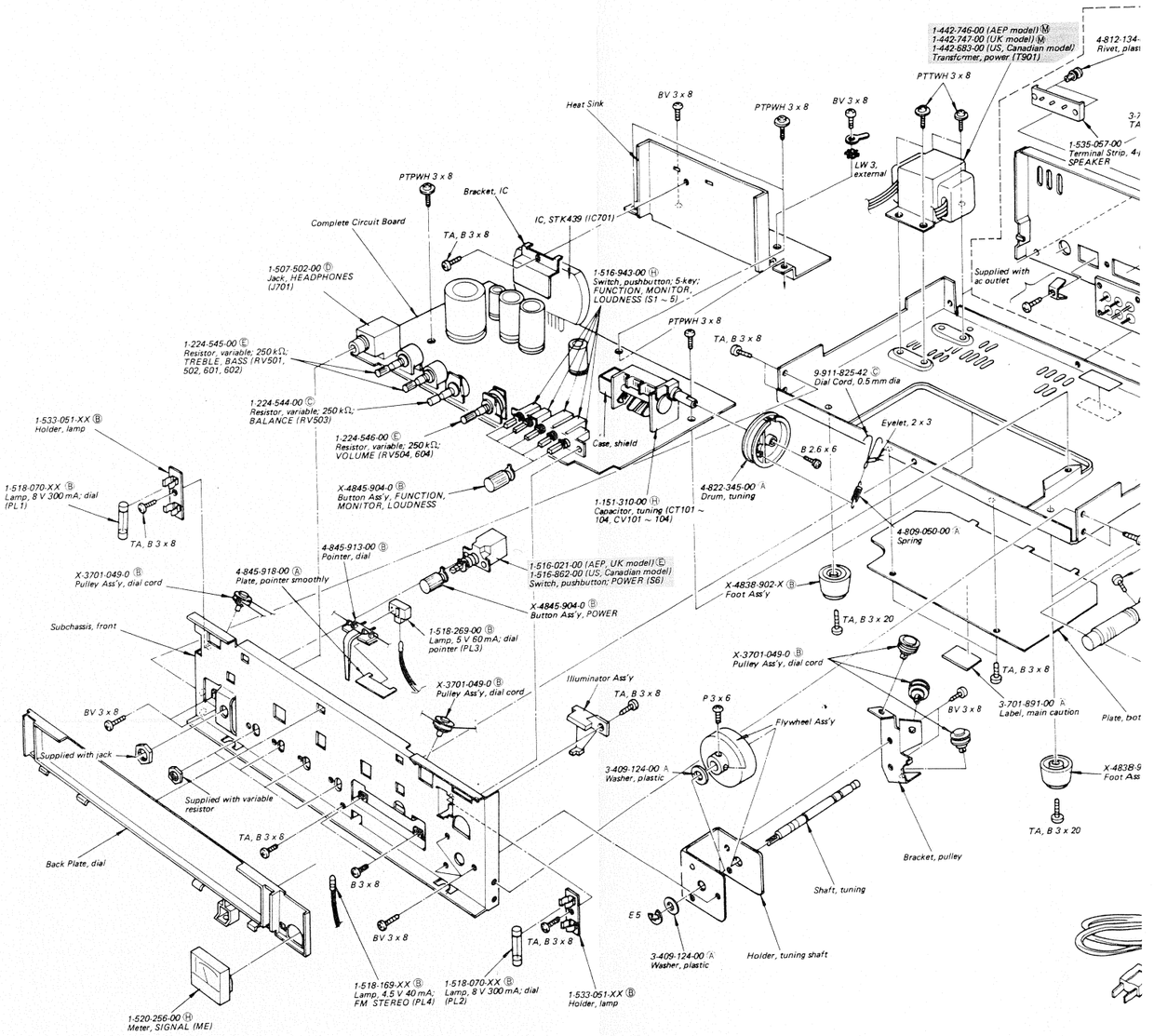
Ref. No.	Switch	Position
S1-1 ~ 4	PHONO	OFF
S2-1 ~ 4	FM	ON
S3-1, 2	AM	OFF
S4-1, 2	MONITOR	SOURCE
S5-1, 2	LOUDNESS	OFF
S6	POWER	OFF

SECTION 5
EXPLODED VIEWS

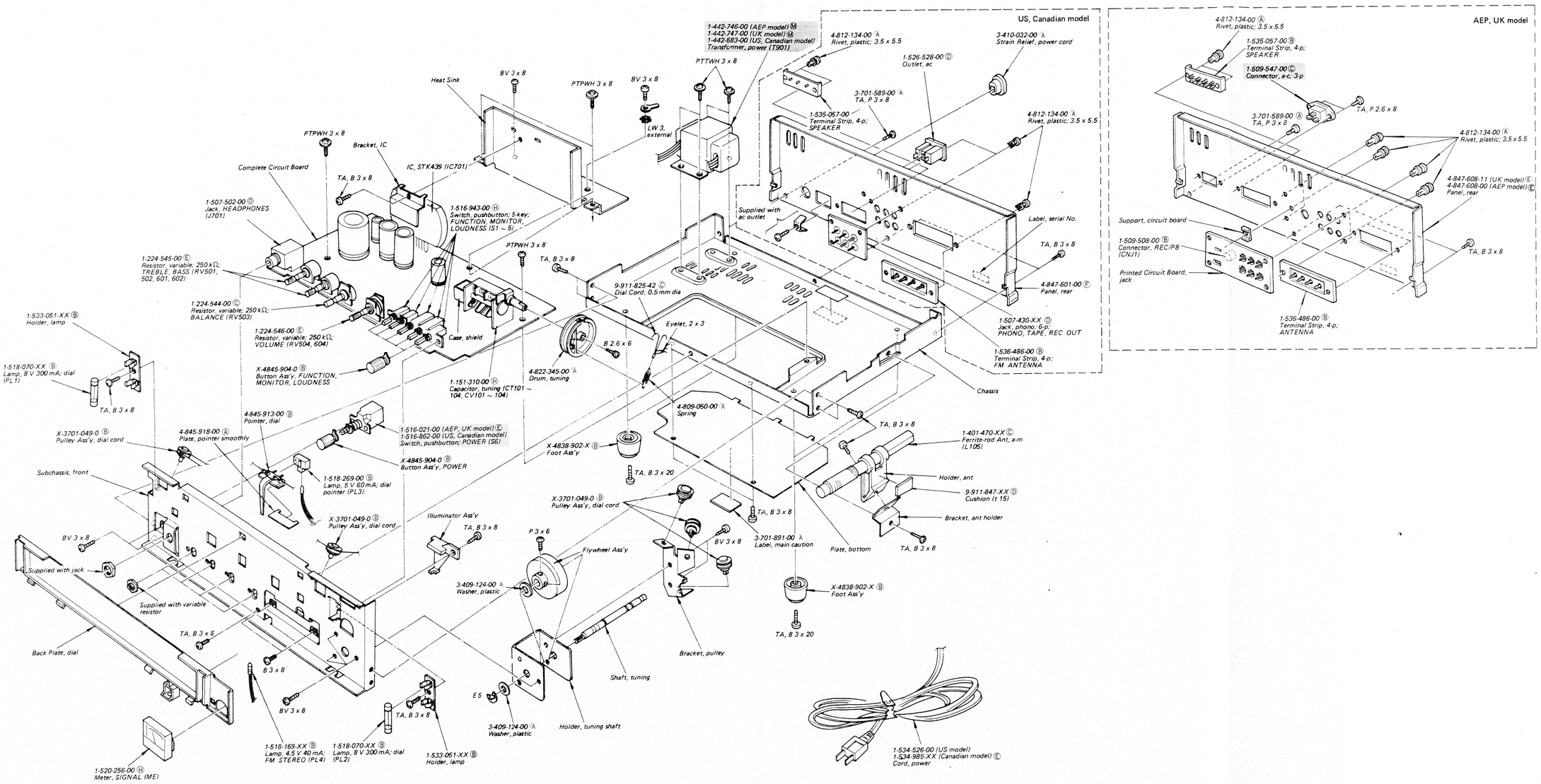

BTT 4 x 25
3-701-901-00 Ⓐ Label, sub-caution
W4
3-701-589-00 Ⓐ TA, P 3 x 8
4-847-602-00 Ⓘ Cover, top
X-4847-601-0 Ⓗ Board Ass'y, side (R)
X-4847-602-0 Ⓗ Board Ass'y, side (L)
TA, B 4 x 12
TA, B 4 x 12
W4
BTT 4 x 25
TA, B 3 x 8
SONY
FM
4-845-921-00 Ⓐ Escutcheon, power switch button
TA, B 3 x 5
Plate, pushbutton
4-845-908-11 Ⓔ Scale, dial
X-4845-901-0 Ⓒ Knob Ass'y, TREBLE, BASS, BALANCE
X-4845-902-0 Ⓓ Knob Ass'y, VOLUME
4-845-902-11 Ⓛ Panel, front
3-793-898-21 Ⓐ Tag, quality
X-4845-911-0 Ⓔ Knob Ass'y, TUNING
TA, B 3 x 8

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.


1-442-746-00 (AEP model) Ⓜ
1-442-747-00 (UK model) Ⓜ
1-442-883-00 (US, Canadian model)
Transformer, power (T901)
4-812-134-
Rivet, plas
PTTWH 3 x 8
BV 3 x 8
PTPWH 3 x 8
BV 3 x 8
Heat Sink
LW 3, external
1-535-057-00
Terminal Strip, 4-
SPEAKER
PTPWH 3 x 8
Bracket, IC
IC, STK439 (IC701)
Complete Circuit Board
TA, B 3 x 8
1-507-502-00 Ⓓ Jack, HEADPHONES (J701)
1-516-943-00 Ⓗ Switch, pushbutton; 5-key; FUNCTION, MONITOR, LOUDNESS (S1 ~ 5)
Supplied with ac outlet
PTPWH 3 x 8
TA, B 3 x 8
1-224-545-00 Ⓔ Resistor, variable; 250 kΩ; TREBLE, BASS (RV501, 502, 601, 602)
9-911-825-42 Ⓒ Dial Cord, 0.5 mm dia
1-224-544-00 Ⓒ Resistor, variable; 250 kΩ; BALANCE (RV503)
Eyelet, 2 x 3
1-533-051-XX Ⓑ Holder, lamp
1-224-546-00 Ⓔ Resistor, variable; 250 kΩ; VOLUME (RV504, 604)
Case, shield
B 2.6 x 6
X-4845-904-0 Ⓑ Button Ass'y, FUNCTION, MONITOR, LOUDNESS
4-822-345-00 Ⓐ Drum, tuning
1-151-310-00 Ⓗ Capacitor, tuning (CT101 ~ 104, CV101 ~ 104)
1-518-070-XX Ⓑ Lamp, 8 V 300 mA; dial (PL1)
4-809-050-00 Ⓐ Spring
TA, B 3 x 8
4-845-913-00 Ⓑ Pointer, dial
X-3701-049-0 Ⓑ Pulley Ass'y, dial cord
4-845-918-00 Ⓐ Plate, pointer smoothly
1-516-021-00 (AEP, UK model) Ⓔ
1-516-862-00 (US, Canadian model)
Switch, pushbutton; POWER (S6)
X-4838-902-X Ⓑ Foot Ass'y
X-4845-904-0 Ⓑ Button Ass'y, POWER
TA, B 3 x 20
Subchassis, front
1-518-269-00 Ⓑ Lamp, 5 V 60 mA; dial pointer (PL3)
X-3701-049-0 Ⓑ Pulley Ass'y, dial cord
Illuminator Ass'y
TA, B 3 x 8
X-3701-049-0 Ⓑ Pulley Ass'y, dial cord
TA, B 3 x 8
3-701-891-00 Ⓐ Label, main caution
Plate, bot
BV 3 x 8
P 3 x 6
Flywheel Ass'y
BV 3 x 8
Supplied with jack
3-409-124-00 Ⓐ Washer, plastic
X-4838-9
Foot Ass
Supplied with variable resistor
TA, B 3 x 8
TA, B 3 x 20
Back Plate, dial
Bracket, pulley
B 3 x 8
Shaft, tuning
E 5
BV 3 x 8
TA, B 3 x 8
3-409-124-00 Ⓐ Washer, plastic
Holder, tuning shaft
1-518-169-XX Ⓑ Lamp, 4.5 V 40 mA; FM STEREO (PL4)
1-518-070-XX Ⓑ Lamp, 8 V 300 mA; dial (PL2)
1-533-051-XX Ⓑ Holder, lamp
1-520-256-00 Ⓗ Meter, SIGNAL (ME)

Note: The components identified by shading are critical for safety. Replace only with part number specified.



Note: The components identified by shading are critical for safety. Replace only with part number specified.

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

SECTION 6
ELECTRICAL PARTS LIST

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	Part No.	Description
		SEMICONDUCTORS
		Transistors
Q101	Ⓑ	2SC710
Q102	Ⓑ	2SC710
Q103	Ⓑ	2SC403C
Q104～108, Q110	Ⓑ	2SC710
Q301, 401	Ⓑ	2SC631A
Q302, 402	Ⓑ	2SC634A
Q501, 601	Ⓑ	2SC632A
Q901	Ⓒ	2SC1475
		Diodes
D101	Ⓑ	1S1555
D102, 103	Ⓑ	1T22A
D105～107	Ⓑ	1T22A
D108	Ⓑ	2SC710
D201	Ⓑ	EQA01-15R
D901～904	Ⓑ	10E2
		ICs
IC201	Ⓙ	HA1156
IC701	Ⓛ	STK439
		COILS
L103	1-405-597-00	Ⓑ AM Osc
L105	1-401-470-XX	Ⓒ AM Ferrite-rod Antenna
L106	1-407-169-XX	Ⓐ Microinductor, 100 μH
L107	1-407-188-XX	Ⓐ Microinductor, 6.8 μH
		TRANSFORMERS
CFU101	1-403-830-51	Ⓒ AM IFT (UK model)
	1-403-150-00	Ⓒ AM IFT (US, Canadian, AEP model)
IFT101	1-404-004-00	Ⓑ FM IFT
IFT102	1-403-900-00	Ⓑ AM IFT
IFT103	1-403-822-21	Ⓒ FM Discriminator
T901	1-442-683-00	Power (US, Canadian model)
	1-442-746-00	Ⓜ Power (AEP model)
	1-442-747-00	Ⓜ Power (UK model)

Ref. No.	Part No.	Description
		FILTERS
CF101, 102	1-527-220-91	Ⓑ Ceramic, 10.7 MHz
BPF101	1-231-307-00	Ⓑ Band-pass
		CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
pF = μμF, elect = electrolytic

C101	1-102-950-11	Ⓐ 13 p		
C102	1-101-005-11	Ⓐ 0.022		
C103	1-102-807-11	Ⓐ 5 p		
C104	1-102-121-11	Ⓐ 0.0022		
C105	1-101-586-11	Ⓐ 0.75 p		
C106	1-101-005-11	Ⓐ 0.022		
C107	1-102-979-11	Ⓐ 240 p		
C108	1-101-004-11	Ⓐ 0.01		
C109	1-101-005-11	Ⓐ 0.022		
C110	1-108-837-12	Ⓐ 0.01		mylar
C111	1-121-651-11	Ⓐ 10	16 V	elect
C112	1-123-195-11	Ⓐ 47	10 V	elect
C113	1-121-651-11	Ⓐ 10	16 V	elect
C114	1-101-004-11	Ⓐ 0.01		
C116～118	1-101-005-11	Ⓐ 0.022		
C119	1-102-121-11	Ⓐ 0.0022		
C121	1-101-005-11	Ⓐ 0.022		
C122	1-108-840-12	Ⓐ 0.018		mylar
C124	1-102-809-11	Ⓐ 7 p		
C125	1-121-419-51	Ⓐ 220	6.3 V	elect
C126	1-102-684-11	Ⓐ 8 p		
C127	1-101-005-11	Ⓐ 0.022		
C128	1-102-805-11	Ⓐ 22 p		
C129	1-102-681-11	Ⓐ 2 p		
C130	1-127-046-11	Ⓐ 0.22	16 V	solid aluminum
C131	1-102-683-11	Ⓐ 4 p		
C132, 134	1-101-005-11	Ⓐ 0.022		
C135	1-102-121-11	Ⓐ 0.0022		
C136	1-101-005-11	Ⓐ 0.022		
C137	1-102-937-11	Ⓐ 4 p		

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description		
C138	1-102-951-11	Ⓐ 15 p		
C139	1-121-651-11	Ⓐ 10	16 V	elect
C140	1-121-726-11	Ⓐ 0.47	50 V	elect
C141	1-101-797-11	Ⓐ 0.1		(boundary layer)
C142	1-108-798-12	Ⓐ 0.0033		mylar
C150, 151	1-101-004-11	Ⓐ 0.01		
C192, 193	1-101-005-11	Ⓐ 0.022		
C201	1-121-651-11	Ⓐ 10	16 V	elect
C202	1-121-391-11	Ⓐ 1	50 V	elect
C203, 204	1-121-726-11	Ⓐ 0.47	50 V	elect
C205	1-108-846-12	Ⓐ 0.056		mylar
C206	1-103-817-11	Ⓐ 470 p		polystyrol
C207, 208	1-108-242-12	Ⓐ 0.022		mylar
C209, 210	1-121-726-11	Ⓐ 0.47	50 V	elect
C212	1-121-426-11	Ⓑ 470	16 V	elect
C213	1-121-726-11	Ⓐ 0.47	50 V	elect
C214	1-102-074-11	Ⓐ 0.001		
C291	1-108-230-12	Ⓐ 0.0022		mylar
C292	1-102-977-11	Ⓐ 200 p		
C293	1-102-973-11	Ⓐ 100 p		
C301, 401	1-121-395-11	Ⓐ 4.7	25 V	elect
C302	1-121-415-11	Ⓐ 100	16 V	elect
C303, 403	1-101-001-11	Ⓐ 0.001		
C304, 404	1-101-881-11	Ⓐ 47 p		
C305, 405	1-121-402-11	Ⓐ 33	10 V	elect
C306, 406	1-121-391-11	Ⓐ 1	50 V	elect
C307	1-123-186-11	Ⓑ 47	35 V	elect
C308, 408	1-102-119-11	Ⓐ 0.0015		
C309, 409	1-101-340-11	Ⓐ 120 p		
C310, 410	1-108-801-12	Ⓐ 0.0056		mylar
C501, 601	1-102-119-11	Ⓐ 0.0015		
C502, 602	1-102-129-11	Ⓐ 0.01		
C503, 603	1-102-126-11	Ⓐ 0.0056		
C504, 604	1-108-849-12	Ⓑ 0.056		mylar
C505, 605	1-101-797-11	Ⓐ 0.1		(boundary layer)
C506, 606	1-101-001-11	Ⓐ 0.001		
C507, 607	1-121-391-11	Ⓐ 1	50 V	elect
C508, 608	1-102-108-11	Ⓐ 150 p		

Ref. No.	Part No.	Description		
C509, 609	1-102-128-11	Ⓐ 0.0082		
C510	1-123-190-11	Ⓑ 47	25 V	elect
C701, 801	1-108-829-12	Ⓑ 0.1		mylar
C702, 802	1-102-106-11	Ⓐ 100 p		
C703, 803	1-123-193-11	Ⓑ 100	16 V	elect
C704, 804	1-123-190-11	Ⓑ 47	25 V	elect
C705, 805	1-121-984-11	Ⓓ 2200	35 V	elect
C706, 806	1-101-005-11	Ⓐ 0.022		
C707	1-123-192-11	Ⓐ 47	16 V	elect
C708	1-123-080-11	Ⓑ 10	100 V	elect
C901	1-125-137-11	Ⓔ 2200	63 V	elect
C902	1-123-083-11	Ⓑ 47	100 V	elect
C904, 905	1-108-725-12	Ⓑ 0.047	200 V	mylar
C906	1-123-190-11	Ⓑ 47	25 V	elect
CT101～104, CV101～104	1-151-310-00	Ⓗ tuning		
		RESISTORS		

All resistors are in ohms. Common ¼W carbon resistors are omitted. Check schematic diagram for values.
(k = 1000, M = 1000 k)

R703, 803	1-212-891-11 Ⓐ	27Ω	¼ W fusible (nonflammable)
R705, 805	1-212-958-11 Ⓐ	10	½ W fusible (nonflammable)
R706, 806	1-202-565-11 Ⓐ	47Ω	½ W composition
R901	1-202-587-11 Ⓐ	3.9 k	½ W composition
R902	1-212-881-11 Ⓐ	10Ω	¼ W fusible
R903	1-213-147-11 Ⓐ	2.2 k	1 W metal-oxide (nonflammable)
R904, 905	1-206-667-11 Ⓐ	1.3 k	2 W metal-oxide (nonflammable)
R906	1-213-135-11 Ⓐ	22Ω	1 W metal-oxide (nonflammable)
R908	1-206-666-11 Ⓐ	1.2 k	2 W metal-oxide (nonflammable)
R909	1-206-663-11 Ⓐ	91Ω	2 W metal-oxide (nonflammable)
R910	1-213-142-11 Ⓐ	82Ω	1 W metal-oxide (nonflammable)

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*
R911, 912	1-202-723-11	2.2M ½W composition (US, Canadian model)
RV201	1-222-787-00	Ⓑ 10 k, adjustable; MPX
RV501, 601 RV502, 602	1-224-545-00	Ⓔ 250 k, variable; TREBLE, BASS
RV503	1-224-544-00	Ⓒ 250 k, variable; BALANCE
RV504, 604	1-224-546-00	Ⓔ 250 k, variable; VOLUME
		SWITCHES
S1 ~ 5	1-516-943-00	Ⓗ Pushbutton, 5-key; FUNCTION, MONITOR, LOUDNESS
S6	1-516-862-00	Pushbutton, POWER (US, Canadian model)
	1-552-021-00	Ⓔ Pushbutton, POWER (AEP, UK model)
		LAMPS
PL1, 2	1-518-070-XX	Ⓑ 8 V 300mA, dial
PL3	1-518-269-00	Ⓑ 5 V 60 mA, dial pointer
PL4	1-518-169-XX	Ⓑ 4.5 V 40 mA, FM STEREO

Ref. No.	*Part No.*	*Description*
		MISCELLANEOUS
CNJ1	1-509-508-00	Ⓑ REC/PB Connector (AEP, UK model)
CR101	1-231-204-00	Ⓑ Encapsulated Component
CR102	1-231-202-00	Ⓑ Encapsulated Component
F1	1-532-267-00	Ⓑ Fuse, 1.6 A (US, Canadian model)
	1-532-215-00	Ⓑ Fuse, 800 mAT (AEP, UK model)
J701	1-507-502-00	Ⓓ Jack, HEADPHONES
ME	1-520-256-00	Ⓗ Meter, SIGNAL
	1-507-430-XX	Ⓓ Jack, phono; 6-p; PHONO, TAPE, REC OUT
	1-509-547-00	Ⓒ Connector, a-c; 3-p (AEP, UK model)
	1-526-528-00	Ⓓ Outlet, ac (US, Canadian model)
	1-533-051-XX	Ⓑ Holder, lamp
	1-534-526-00	Cord, power (US model)
	1-534-985-XX	Cord, power (Canadian model)
	1-535-057-00	Ⓑ Terminal Strip, 4-p; SPEAKER
	1-536-486-00	Ⓑ Terminal Strip, 4-p; ANTENNA

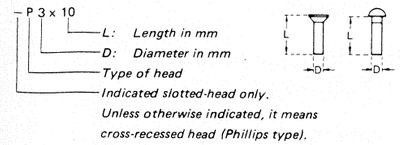
ACCESSORIES AND PACKING MATERIALS

Part No.	*Description*
1-501-161-00	Ⓕ Ribbon Antenna, fm
3-770-029-11	Ⓔ Manual, instruction (AEP, UK model)
3-770-029-21	Manual, instruction (US, Canadian model)
3-794-013-31	Manual, instruction; French (Canadian model)
4-828-909-00	Ⓔ Bag, plastic
4-847-606-00	Ⓖ Carton
4-847-607-00	Ⓓ Cushion

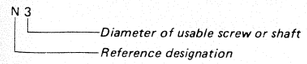
Note: The components identified by shading are critical for safety. Replace only with part number specified.

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

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